# SPIDER ™

**1:4 DVI Distributor (OVD14)**
**1:8 DVI Distributor (OVD18)**

*User's Manual*

Doc No. : OD-D130903 / Rev2.9

## CONTENTS


| | |
|---|---|
| Contents | 1-1 |
| Introduction | 1-2 |
| Specification | 1-3 |
| Product picture(OVD14) | 1-4 |
| Product picture(OVD18) | 1-5 |
| Features | 1-6 |
| Installation | 1-7 |
| Warranty Information | 1-8 |
| Trouble shooting | 1-9 |



Vertrieb durch
Distribution by
HY-LINE®
COMPUTER COMPONENTS
Inselkammerstr. 10
D-82008 Unterhaching
Tel.: +49 89 614 503 40
www.hy-line.de

## Package Includes

Each **SPIDER™** DVI Distributor package includes the following items;

**OVD14 or OVD18 SPIDER™ DVI Distributor Unit**
**5V, 2.6A Power Supply Universal adapter**
**User manual**

## Safety Precautions

1. To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.

2. Never spill liquid of any kind on or into this product.

3. Do not attach the power supply cabling to building surfaces.

4. To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

## Introduction

**SPIDER™ OVD14 and OVD18**, DVI Distributor is a high performance HDCP compliant DVI distributor. It allows same DVI or HDMI signal source split up to four (OVD14) and eight (OVD18) identical and buffered displays for multi – viewing purpose.

**High Quality Picture - No Signal Loss and Digital Noise Free**

Our Distributors are built to deliver the highest quality picture preserving the native resolutions of the video sources without any signal loss. At the same time, the digital noises that may affect the picture quality will be eliminated. Due to the nature of the digital signals and passing through multiple stages of connection when using distributors, it is important to eliminate the digital noises and boost the signal strength to preserve /enhance the video signal quality.

**Signal distribution for signal reliability and long length signal transmission**

Our 5V power adapter supplies adequate power to amplify the video signals from the video source. This is necessary as the overall length from the video source to the displays is longer when using the distributor (distance from the video source to the distributor + distance from the distributor to the display). In most cases, the overall distance that the DVI signal will need to travel is over 10ft. Due to the nature of DVI signals, amplification is necessary to warrant the video quality and reliability. (Without amplification, there may be occasional blackouts or blinking effects) With this amplification feature, your video display can be extended using our fiber optical DVI cables.

## Specification

| Model Name | OVD14 | OVD18 |
|---|---|---|
| Input Signal | DVI (TMDS),Single Link | DVI (TMDS),Single Link |
| Output Signal | DVI Single Link , 4port, | DVI Single Link , 8port |
| Resolution | VGA to WUXGA, 480p to 1080i/p | |
| Receptacle | DC Power Jack DVI | |
| Power Supply | DC +5V , 2.6A | |
| Dimension(mm) | 160 x 91 x 25 | 240 x 103 x 25 |
| Weight(kg) | 0.24 | 0.38 |
| Operating Temp. | 0℃~40℃ | 0℃~48℃ |
| Storage Temp. | -20℃~45℃ | |
| Operating Humidity | 30%~80% | |
| Storage Humidity | 60% | |
| Power Consumption | 6W | 10W |



## Product picture (OVD14)

[Dimensions] 160 x 91 X 25 mm

OVD14 <FRONT>

OVD14 <REAR>

## Product picture (OVD18)

[Dimensions] 240 x 103 X 25 mm

OVD18 <FRONT>

OVD18 <REAR>



## Features

OVD14 and OVD18 is a high performance HDCP compliant DVI distributor. It allows one DVI or HDMI signal source to split up to four/eight identical and buffered outputs for connecting to four/eight displays simultaneously.

Built-in EDID and HDCP bypass ensures each output can be displayed independently.

HDMI source and displays are compatible by using the HDMI to DVI adaptor cable.

Can be cascaded up to 3 layers.

## Installation

1. Connect your video source's DVI output port to the OVD14/OVD18 DVI input port using standard DVI cables (not included). Make sure all your DVI sources and the displays are turned off before connecting the cables.

2. Connect your DVI display's DVI input port to OVD14/OVD18 DVI output port. Make sure your DVI display is turned off before connecting the cables.

**Note:** The source will output resolutions and timings according the EDID that is being fed by the lowest DVI output channel .Therefore, all of the connected displays must be capable of accepting the timings and resolution output by the source.

3. Plug the 5V power supply into the switch's power input port.

4. Plug the 5V wall mount power supply into the wall outlet.

5. Turn on your displays.

6. Turn on your video source.

※ Sync LED: The led will be turned on when the source signal is connected.



## Warranty Information

**1 (One) Year Warranty**
Opticis warrants **SPIDER™** OVD14 and OVD18, DVI Distributor to be free from defects in workmanship and materials, under normal use and service, for a period of one (1) year from the date of purchase from Opticis or its authorized resellers.

If a product does not work as warranted during the applicable warranty period, Opticis shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item.

All products that are replaced will become the property of Opticis.

Replacement products may be new or reconditioned.

Any replaced or repaired product or part has a ninety (90) days warranty or the reminder of the initial warranty period, whichever is longer.

Optics shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to Optics for repair under warranty or not.

**Warranty Limitation and Exclusion**
Opticis shall have no further obligation under the foregoing limited warranty if the product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modifications, tampering, alterations, or service other than by Opticis or its authorized agents, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

## Troubleshooting

| Problem | Solution |
|---|---|
| Distributor not operating | Make sure the 5V power is plugged in the back of the unit.<br>Check to see if the power LED light is on. |
| No picture(or signal)<br>Or Poor picture | 1. If you are using copper based DVI cable, overall length of the cables (length of the cable from video source to switch and length of the cable from switch to display) should not exceed 15ft. Exceeding 15ft. with copper based cables will result in no or poor picture quality. To extend beyond 20ft, please use fiber optical DVI extension cables such as Opticis Model M1-1P0 cables.<br>2. Use high quality DVI cables.<br>3. If you are using computers, try other refresh rate settings. Most HDTVs have refresh rate of 60Hz and computer's video cards are usually set at higher refresh rate. Try lower refresh rates.<br>4. Make sure all DVI connectors are tightly secured to all DVI ports. Loose screws on the DVI connectors will result in no or poor picture.<br>5. Turn off all equipments(video source, switch and HDTV) and restart all equipments. |
| Incorrectly sized picture / resolution or No picture | Please remember that your video source will only support one resolution setting. To connect 1600x1200 resolution display and 800x600 resolution display, the resolution setting of your video source must be set to the lower resolution setting (800x600). |



© 2011 Opticis Co., Ltd. All Rights Reserved
Revision 2.9. 3, Sep, 2013

**Headquarters**

Opticis Co., Ltd.
# 16Fl, Kins Tower
8 Sungnam-daero, 331 beon-gil,
Bundang-gu,
Seongnam-si, Gyunggi-do, 463-844
South Korea
Te l: +82 (31) 719-8033
Fax: +82 (31) 719-8032
www.opticis.com

For order support, please contact your Distributor or Reseller.

For technical support, check with the with the Opticis web site www.opticis.com or contact techsupport@opticis.com